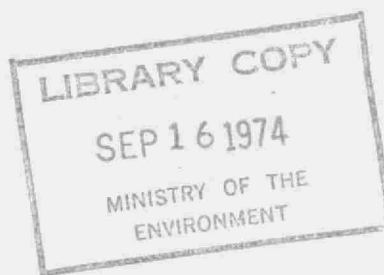


Water Management in Ontario

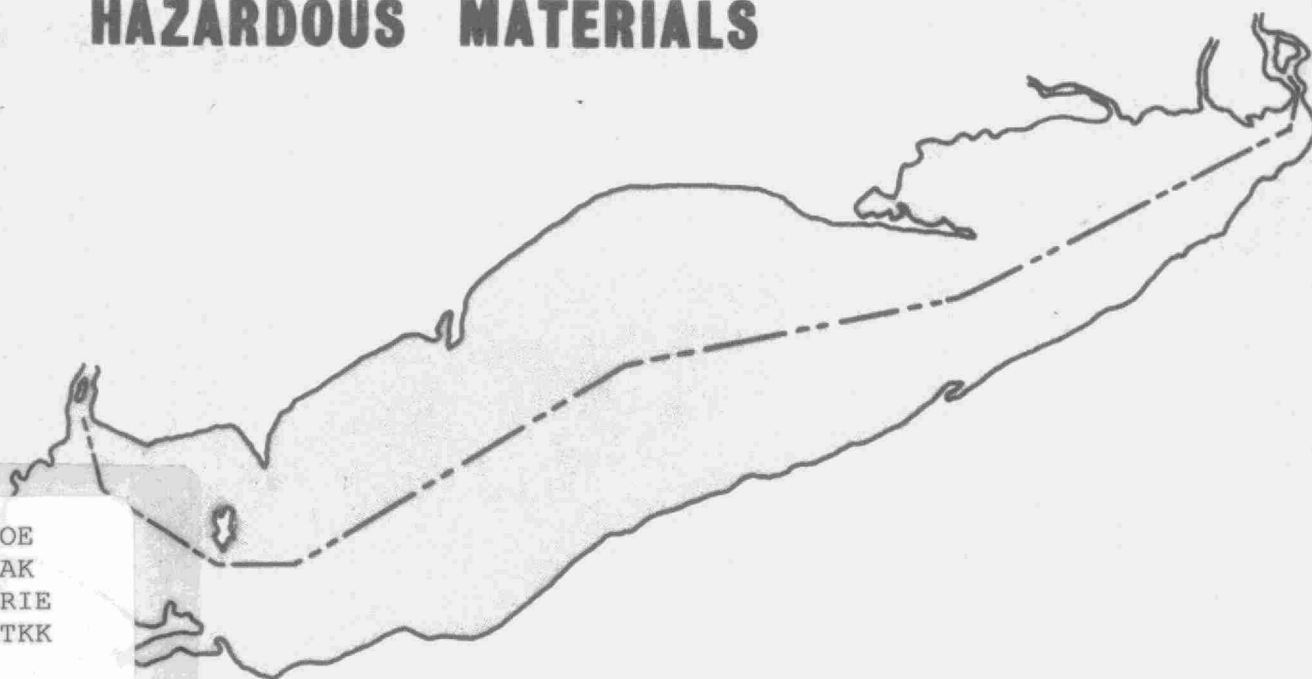
Ontario
Water Resources
Commission

July
1970

LAKE ERIE CONTINGENCY PLAN
FOR SPILLS OF
OIL AND OTHER
HAZARDOUS MATERIALS



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LAKE ERIE CONTINGENCY PLAN

for

SPILLS OF OIL AND OTHER

HAZARDOUS MATERIALS

ONTARIO WATER RESOURCES COMMISSION

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INTRODUCTION

The spill of oil or other hazardous materials, whether originating from vessels, industry, oil and gas drilling operations or other activities involving the handling of these materials, presents a potential danger to the environment. This contingency plan has been developed to provide positive, co-ordinated action for the control, containment and clean-up of these spills.

After consultation with interested parties, the Ontario Water Resources Commission developed the "Lake Erie Contingency Plan for Spills of Oil and Other Hazardous Materials".

Persons working on and about Lake Erie are vitally concerned with this problem and by their presence can perform a very useful role in notifying the ONTARIO OPERATIONS CENTER of observed spills.

PURPOSE AND OBJECTIVES

The purpose of the "Lake Erie Contingency Plan for Spills of Oil and Other Hazardous Materials" is to provide a framework for:

- (a) the discovery and reporting of spills,
- (b) alerting and co-ordinating resources including manpower, materials and equipment to control contamination and clean-up spills,
- (c) establishing financial liability and ensuring future compliance with existing regulations.

The plan permits and encourages the development of and close co-ordination with local contingency measures developed by municipalities, industries and others.

This plan will be placed into effect for major spills of oil and other hazardous material which occur in Canadian waters of Lake Erie. These spills should be reported through the alerting system described in this contingency plan.

RESPONSIBILITIES

(i) Ontario Water Resources Commission (OWRC)

The Ontario Water Resources Commission is responsible for pollution abatement in the Province and has taken the lead role in the development of a multi-agency plan to deal with spills on Lake Erie.

The responsibilities of the Commission in the Lake Erie Contingency Plan will be:

- to undertake the command in the event of a major spill,
- to maintain the ONTARIO OPERATIONS CENTER to which all spills are reported,
- to provide technical advice on aspects of water pollution,
- to alert all water users who may be affected by a spill.
- to provide co-ordination with other affected provincial and municipal agencies,
- to carry out a continuous evaluation of chemicals and other equipment for use in controlling and containing oil spills and distribute this information to interested parties.

(ii) Ontario Department of Mines and Northern Affairs

Through its Petroleum Resources Section, the Department of Mines and Northern Affairs administers the regulation of exploration and drilling procedures, licences and inspection drilling and production facilities in Ontario, including Lake Erie.

The responsibilities of the department in the Lake Erie Contingency Plan will be:

- to provide the on-scene command in the event of a small spill from an oil and gas well drilling operation,
- to provide technical expertise with respect to oil and gas well drilling operations,
- to alert oil and gas well drilling operators in the vicinity of an oil spill.

(iii) Ontario Department of Lands and Forests (ODL&F)

The Fish and Wildlife Branch of the Department of Lands and Forests is responsible for the regulations respecting the fisheries, both commercial and recreational on Lake Erie. The Department also operates a Fisheries Research Station at Wheatley in Western Lake Erie.

In its activities on Lake Erie, the Department's responsibilities include:

- the provision of information related to the fisheries in the lake,
- maintaining contact with commercial fishermen,
- the provision of guidance and assistance in the protection of fish and wildlife.

(iv) Other Provincial Government Departments

(a) Ontario Provincial Police (OPP)

- to provide emergency communications as required.

(b) Ontario Department of Highways (ODH)

- to provide equipment in the form of mulchers and straw as may be required.

(v) Canada Department of Transport (CDOT)

The Department of Transport administers the Oil Pollution Regulations under the Canada Shipping Act. The Department has power to take action to prevent pollution that may be caused by the release of the cargo or fuel from a ship in distress. The act also contains provisions prohibiting the pollution of water by oil discharged from a ship and the provisions for prosecution of the offending

party. The Department also maintains a fleet of coast guard vessels on the Great Lakes as well as helicopters and fixed-wing aircraft to enforce the provisions of the act during the navigational season.

Under the proposed Federal Contingency Plan for control of spills from shipping, the Canada Department of Transport provides the on-scene command in the event of a vessel disaster.

ONTARIO OPERATIONS CENTER

The Ontario Operations Center is located within the Water Quality Surveys Branch of the Ontario Water Resources Commission at 135 St. Clair Avenue West. The co-ordinator for oil spills will be Mr. N. Vanderkooy with Mr. S.E. Salbach and Mr. K. Shikaze as alternates.

Functions of the Operations Center are as follows:

- to act as the focal point for all reports concerning the spill of oil and other hazardous materials,
- to maintain up-to-date technical information on oil spills,
- to maintain an inventory of materials, chemicals, etc. to be used for control of oil spills,
- to advise other agencies and persons who may be affected by a spill.
- to implement the Lake Erie Contingency Plan.

In the event of implementation of the Lake Erie Contingency Plan, the Operations Center will be manned 24 hours a day and will provide the following:

- continuous communication with the Lake Erie Operations Team,

- co-ordination of any other action required,
- act in co-operation with public relations representatives of the agencies involved as the focal point for information releases concerning the spill.

N.B.: It should be noted that operational control shall not originate from the Operations Center unless specifically requested by the On-Scene Commander.

ON-SCENE CO-ORDINATION

The command responsibilities for the co-ordination and direction of the pollution control activities at the scene of a spill of oil or other polluttional materials will be directed by an On-Scene Commander. It will be his responsibility to implement as quickly and efficiently as possible the Lake Erie Contingency Plan so that the pollution effects of the spill can be kept to a minimum. The Ontario Water Resources Commission will provide the On-Scene Commander for the Lake Erie Contingency Plan unless the nature and source of the spill warrants otherwise.

1. In the event of a spill of oil or other hazardous materials, the first government official at either the provincial or federal level (DOT) or industry official representing the party responsible for the spill on the scene will assume the co-ordination activities under this plan until the predesignated On-Scene Commander arrives to assume command. In the event of a major oil spill resulting from a vessel, the Great Lakes On-Scene Commander will be from the Canada Dept. of Transport and will assume responsibility in accordance with the federal contingency plan.

2. The On-Scene Commander shall determine pertinent facts about a particular incident such as the nature, amount

and location of material spilled, probable direction and time of travel of the material, resources and installations which may be affected and the priorities for protecting them.

4. The On-Scene Commander shall call upon and direct the deployment of needed resources in accordance with this plan to initiate and continue containment, counter-measures, clean-up, restoration and disposal functions.

5. In implementing this plan, the On-Scene Commander will report to and co-ordinate closely with the Lake Erie Operations Team to ensure the maximum effectiveness of the activities in protecting the natural resources and environment from pollution damage.

6. The On-Scene Commander shall, with the assistance from the Lake Erie Operations Team, make regular reports to the ONTARIO OPERATIONS CENTER.

LAKE ERIE OPERATIONS TEAM

The Lake Erie Operations Team is the on-site Technical Team which will be activated upon implementation of the Lake Erie Contingency Plan. It will usually consist of representatives of the Ontario Water Resources Commission, Ontario Department of Mines and Northern Affairs, Ontario Department of Lands and Forests, Canada Department of Transport, Ontario Provincial Police and other government agencies and industry as required. The first representative from each of these agencies automatically becomes a member of the Lake Erie Operations Team and remains on the team until such time as a more senior member of that agency arrives.

In the Lake Erie Contingency Plan, the functions of the Lake Erie Operations Team will be to:

- serve as the emergency advisory team on the scene of the spill,
- establish a communication link with the OPERATIONS CENTER,
- review and evaluate situations and reports received from the On-Scene Commander.
- advise the On-Scene Commander of applicable control techniques, available materials, manpower and otherwise respond to needs of the On-Scene Commander.

- provide advice to the On-Scene Commander relative to public health, safety, security, navigation, oil and gas drilling, fish and continuing water pollution control techniques.
- prepare reports for forwarding to the OPERATIONS CENTER, as may be directed by the On-Scene Commander.

TECHNICAL LIAISON

From time to time technical information exchanges, possibly in the form of seminars, meetings, etc. will be organized by the Ontario Water Resources Commission.

The objectives of these information exchanges will be to review:

- techniques for containment and removal of oil and hazardous material,
- provide information for the development of local contingency plans,
- exchange information on available resources.

APPENDIX I

RESPONSE PHASES

APPENDIX I

RESPONSE PHASES

The actions taken to combat a spill can be separated into four distinct phases. These are: Phase I - Discovery and Notification; Phase II - Containment and Countermeasures; Phase III - Clean-up, Restoration and Disposal, and Phase IV - Recovery of Damages and Enforcement.

PHASE I

Discovery and Notification are the first response actions to spills. Discovery of a spill may be as a result from deliberate searching procedures or by random discovery as outlined in the section entitled "Surveillance" (Appendix II).

All spills should be reported to the ONTARIO OPERATIONS CENTER where a review of the details of the spill will be made and further required action determined (see Appendix III).

PHASE II

Containment and Countermeasures are defensive responses to be initiated as soon as possible after discovery and notification of a spill. Depending on the circumstances, these may include the placing of physical barriers to control the spread

of oil, the placement of booms or barriers to protect onshore areas, and the use of dispersants, sorbents, gelling or burning agents or other materials to mitigate the effects of a spill.

PHASE III

Clean-up, Restoration and Disposal include those actions taken to remove the oil from the water such as the collection of oil through the use of sorbents, skimmers or other collection devices to restore the environment to its natural state and to safely dispose of oil which is recovered in the clean-up and restoration phase.

PHASE IV

Recovery of Damages and Enforcement will include a variety of activities depending on the location and circumstances. An essential aspect of this phase is the collection of samples and other data as quickly as possible to substantiate the source for later recovery of damages. (Also see Appendix VII).

Note: For further details contact the ONTARIO OPERATIONS CENTER.

APPENDIX II

SURVEILLANCE

APPENDIX II

SURVEILLANCE

Spills of oil and other hazardous materials should not be permitted to occur. However, accidents are possible and when such incidents do occur, the responsible party is often reluctant to report the details immediately. Therefore, it is desirable for all agencies and persons carrying out activities on the lake to maintain an awareness of possible sources of oil and other hazardous material and the system of notification to be followed in the event of a spill. The following agencies, persons, etc., constitute sources of surveillance on Lake Erie:

I Provincial Agencies

(a) Ontario Water Resources Commission

- survey vessels
- periodic aerial surveillance

(b) Ontario Dept. of Mines and Northern Affairs

- oil and gas well drilling inspectors

(c) Ontario Dept. of Lands and Forests

- research vessels

II Federal Agencies

(a) Department of Transport

- coast guard
- periodic aerial surveillance

(b) Canada Centre for Inland Waters

- research vessels

III United States Agencies

(a) U.S. Coast Guard

(b) U.S. Corps. of Engineers

(c) FWQA

(d) State Agencies - Michigan, Ohio, Pennsylvania, New York

IV Shipping Industry

V Fishing Industry

- operates out of Port Dover, Wheatley and
Erieau

VI Oil and Gas Well Drilling Industry

VII Waterworks Operators

VIII Public-at-large

- pleasure boaters
- fishermen

IX Shore-based Industry

X Harbour Boards and Commissions

APPENDIX III

NOTIFICATION

APPENDIX III

NOTIFICATION

All spills of oil and polluttional materials on Lake Erie shall be reported immediately to the ONTARIO OPERATIONS CENTER, Ontario Water Resources Commission.

During Office Hours: 8:30 AM - 4:45 PM

8:15 AM - 4:30 PM
July and August

Telephone - (416) 365-6954 Mr. N. Vanderkooy
Mr. S.E. Salbach
(416) 365-6975 Mr. K. Shikaze

After Office Hours:

Telephone - (416) 363-1211 Queen's Park Operator

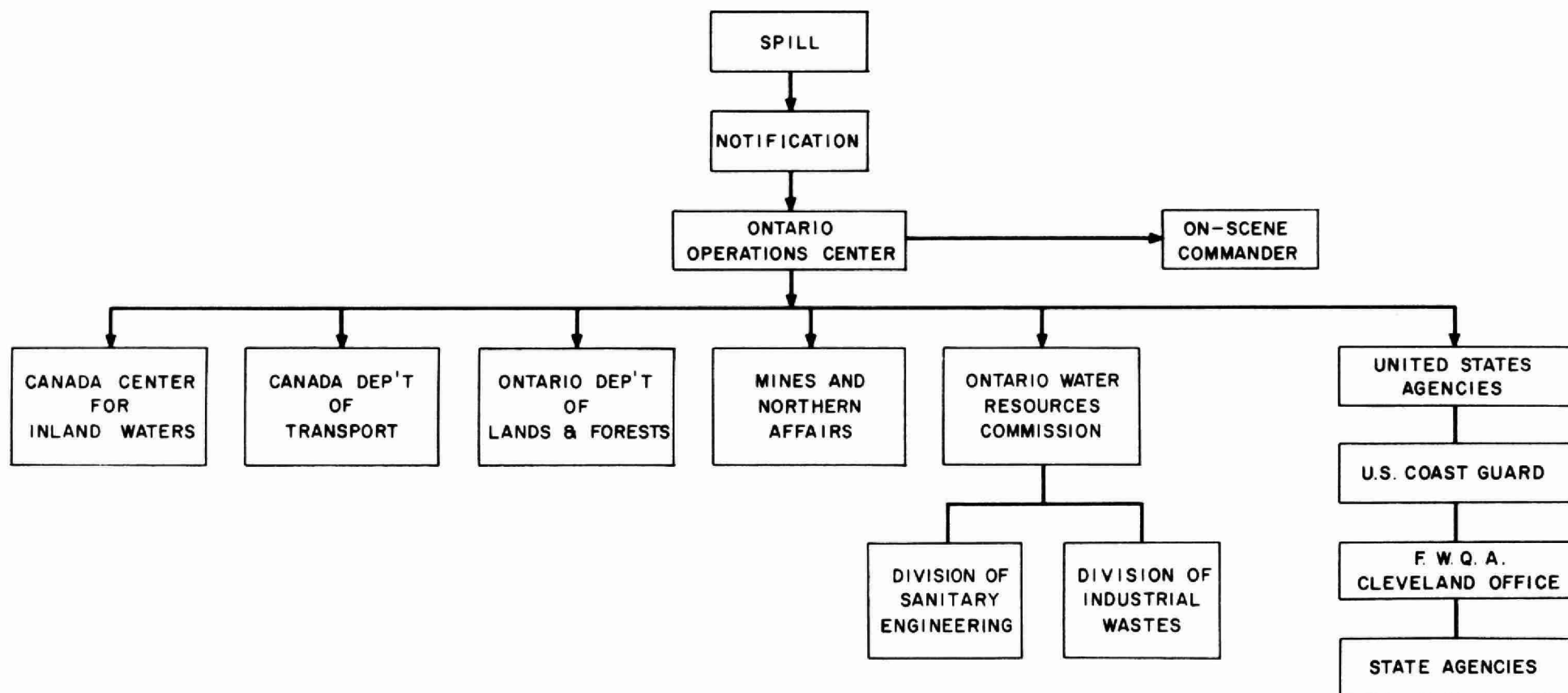
NOTE: Queen's Park Operator is on duty 24 hours and has a list of OWRC staff to be contacted when a spill is reported. When contacting Queen's Park Operator, caller should give name and telephone number at which he can be called by OWRC staff.

Upon notification and determination of the extent of a spill and whether it will require the placing into effect of the Lake Erie Contingency Plan, the OPERATIONS CENTER will then contact other agencies who may be concerned or may become involved. If a major spill is indicated, representation from each agency will be required for the Lake Erie Operations Team to provide the advisory services within the Contingency Plan.

APPENDIX IV

ALERTING PROCEDURE

APPENDIX IV
ALERTING PROCEDURE
LAKE ERIE CONTINGENCY PLAN



APPENDIX V

PROCEDURE FOR REPORTING INFORMATION

and

COLLECTING SAMPLES

APPENDIX V

PROCEDURE FOR REPORTING INFORMATION AND COLLECTING SAMPLES

In the event of any spill, it is essential that factual information on the spill, as well as representative samples be collected for later use in clean-up cost recovery, damage recovery and in enforcement actions.

A. INVESTIGATION & REPORTING (See Action Sheet, Appendix VI and VII)

- investigate all observed and reported spills,
- collect samples of oil from water and from all suspected sources of the spill,
- interview witnesses and obtain names,
- prepare a report on personal findings and observations of others,
- submit reports of spill to ONTARIO OPERATIONS CENTER.

B. SAMPLE COLLECTION

I Several precautions must be taken when collecting and handling liquid samples for analyses. The character of a sample may be affected by the following conditions:

- (a) the composition and cleanliness of the container

APPENDIX VI

ACTION SHEET

for

OIL SPILLS ON LAKE ERIE

- (b) manner in which the sample is taken
- (c) time lapse before analyses

III In taking samples, the following procedures should be followed:

- (a) glass or stainless steel containers of at least one quart size should be used. Plastic containers with the exception of teflon have been found to absorb organic materials from water. In other cases, compounds have been dissolved from plastic containers. This comment also applies to bottle cap liners. The portion of the cap liner which may come into contact with the sample in the container should be made of glass, aluminum foil or teflon.
- (b) clean new containers are preferred, although containers that have been cleaned with a strong detergent, thoroughly rinsed and dried may be used.
- (c) samples must be properly labelled, e.g. name of person who collected the sample, time, location, etc.

- (d) as large a sample as possible of the oil (at least 10 ml of concentrated oil) should be taken to enable the chemist to conduct all the necessary analytical tests. Skimming techniques should be employed to obtain a sufficient amount of oil for analysis.
- (e) when water is polluted, it is not unusual for the polluting condition to change rapidly. Representative samples should be taken with the time sequence and place appropriately noted.
- (e) Samples should be refrigerated and delivered to the OWRC Laboratories, Hwy. 401 and Islington with a minimum of delay.

III Chain of custody of samples must be properly maintained and recorded from the time the samples are taken until it is produced as court evidence. In this regard, a record of time, place, name and title of persons taking the samples, names of witnesses and each person handling same thereafter must be maintained and forwarded with the sample.

APPENDIX VI

ACTION SHEET

for

OIL SPILLS ON LAKE ERIE

In the event of an occurrence, observation or upon notification of an oil spill, contact immediately;

(a) During Office Hours: 8:30 AM - 4:45 PM

8:15 AM - 4:30 PM
July and August

ONTARIO OPERATIONS CENTER

1. Mr. N. Vanderkooy (416) 365-6954
2. Mr. S.E. Salbach (416) 365-6954
3. Mr. K. Shikaze (416) 365-6975

(b) During Off-office Hours:

Queen's Park Operator (416) 363-1211

In situation (b), caller should give name and telephone number at which he can be reached.

Caller should obtain as much information as possible concerning the spill - see the attached FACT SHEET which should be used as a guide.

FACT SHEET

for

Oil Spills on Lake Erie

As much of the following information as possible should be obtained prior to reporting a spill to the Ontario Operations Centre.

Time of observation of spill

Probable source of spill

Probable time of spill

Location of spill

Nature of material spilled

Probable volume of spill

Probable duration of spill

Size of oil slick

Movement of oil slick

Weather and lake conditions

Action being taken to

- control spill

- contain spill

Personnel on the scene of spill

LAKE ERIE
CONTINGENCY PLAN

In the event of an oil or hazardous material spill, the ONTARIO OPERATIONS CENTER, Ontario Water Resources Commission, should be immediately notified by calling: 416-365-6954. After office hours, contact QUEEN'S PARK OPERATOR: 416-363-1211.

The following personnel may be involved in the event of an oil or hazardous material spill:

ONTARIO WATER RESOURCES COMMISSION

<u>Water Quality Surveys Branch</u>	<u>Office Phone</u>	<u>Home Phone</u>
Mr. S. Salbach - Program Engineer	416-365-6954	416-267-2486 Toronto
Mr. N. Vanderkooy- Technologist	416-365-6954	416-459-8610 Bramalea
Mr. W.A. Steggles- Supervisor	416-365-6954	416-769-6880 Tor.
<u>Industrial Wastes Division</u>	<u>Office Phone</u>	<u>Home Phone</u>
Mr. R. Gotts - District Engineer	416-365-6346	416-751-0714 Toronto
- Southwest Ontario		
Mr. R.W. Hussain - Engineer	519-433-3961	519-471-7860 London
- London Office		
Mr. R.C. Stewart - District Engineer	416-365-6346	416-451-8226 Brampton
- West Central Ontario		
Mr. K. Shikaze - Program Engineer	416-365-6975	416-293-2847 Agincourt
-		
Mr. F.R. Phoenix - Supervisor	416-365-6346	416-640-1103 Stouffville
- Field Services Branch		
<u>District Engineers Branch</u>	<u>Office Phone</u>	<u>Home Phone</u>
Mr. J. Timko - District Engineer	416-365-1655	416-274-6374 Port Credit
- Southwest Ontario		
Mr. J. Moore - Engineer	519-433-3961	519-471-3375 London
- London Office		
Mr. R. MacMurray - District Engineer	416-365-1655	416-854-2613 Campbellville
- West Central Ontario		
Mr. G.H. Kay - Supervisor		
- District Engineers Branch	416-365-6971	416-278-6883 Port Credit

ONTARIO DEPARTMENT OF MINES AND NORTHERN AFFAIRS

<u>Petroleum Resources</u>		<u>Office Phone</u>	<u>Home Phone</u>
Mr. D.A. Sharp	- Supervisor	416-365-1981	416-921-6768
Mr. D.D. McLean	- Reservoir Engineer	416-365-1983	416-489-0872

ONTARIO DEPARTMENT LANDS AND FORESTS

Dr. G.H.D. Clarke	- Branch Chief	416-365-4251	416-293-4378
	- Fish and Wildlife Br.		Toronto
Mr. J.D. Roseborough	- Supervisor	416-365-4251	416-483-6756
	- Fisheries Section		Toronto
Mr. W.B.M. Clarke	- District Forester	519-773-9241	519-773-9241
	- Aylmer		Aylmer

CANADIAN CENTER FOR INLAND WATERS

Dr. A.R. LeFeuvre	- Environmental Quality Co-ordinator	416-632-1940	416-634-2437 Burlington
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DEPARTMENT OF TRANSPORT

Steamship Inspection

Mr. A.C. Parkinson	- Steamship Inspector	416-369-4605	416-637-6160
Mr. D.R. Weaver	- Senior Steamship Inspector	416-369-4605	416-277-6463

FEDERAL WATER POLLUTION CONTROL ADMINISTRATION

Lake Erie Basin Office (Cleveland)

Mr. G. Harlow		216-522-4876	216-777-9080
Mr. A. Smith		216-522-4876	216-561-8078

U.S. COAST GUARD OFFICE

District Office, Cleveland - Commander,
Ninth Coast Guard District

Day Phone
216-522-3950
Night Phone
216-522-3983

APPENDIX VII

FINANCIAL RESPONSIBILITY

APPENDIX VII

FINANCIAL RESPONSIBILITY

The removal of the pollutant from the water, the restoration of the environment to its prespill conditions, and the disposal of the pollutants recovered in clean-up and restoration are the primary responsibility of the polluter. Collection of samples and necessary supporting information will be made by the OWRC to determine the source and extent of the damages.

In the event the source of the spill cannot be determined or the person or persons responsible are unwilling or unable to effectively carry out the necessary clean-up operations, the ONTARIO OPERATIONS CENTER will mobilize facilities and personnel to clean-up, restore and dispose of the pollutant. The costs of the operation will be charged to the person or persons who discharged or deposited the polluting material.

APPENDIX VIII

CHEMICAL TREATMENT OF SPILLS

APPENDIX VIII
CHEMICAL TREATMENT OF SPILLS

GENERAL

The objective of adequate oil spill pollution control is to minimize the short term and long term effects. This is preferably achieved by removing the oil. The elimination of visible evidence through the use of dispersants or sinking agents does not necessarily achieve this, and in many cases, may be the direct cause of environmental damage. Floating oil generally has a limited effect on water supplies and fish life, unless it is brought into the water mass through the use of chemicals and sinking agents and is likely to be ingested by fish, foul commercial fishing gear, smother bottom organisms and damage spawning grounds. Most dispersing agents are also toxic in varying degrees and thus exert an additional danger to aquatic life and water supplies. When applied to beaches, dispersants promote the penetration of oil into the sand, thus making removal more difficult.

Other materials or chemicals in use are sorbing, gelling and burning agents.

Sorbents are oil attracting and water repelling materials and include straw, hay, peatmoss, saw-dust, polymers, plastics and foam rubber products. They are

generally not soluble and are not likely to increase the damage caused by the oil. Their main purpose is to limit the rate of slick spreading and facilitate clean-up.

Agents which will form a gell with oil and thereby prevent the oil from spreading further are under development. Therefore, the possible toxic effects of gelling agents is not known at present.

Oil is difficult to burn on the water surface, particularly after the more volatile fractions have evaporated. A number of products are available which under specific circumstances will promote and sustain burning. The danger of air pollution and difficulty of controlling the burning oil mass usually precludes the use of this method along shorelines, in harbours and adjacent to other marine facilities.

GUIDELINES TO THE USE OF CHEMICALS

In view of their potential hazard to the environment chemicals which disperse, emulsify, solubilize, precipitate or sink oil should only be used in consultation with the ONTARIO OPERATIONS CENTER unless it is judged that fire or safety hazards require the immediate application of such chemicals.

Generally, the use of chemicals will not be permitted in the vicinity of a) water supplies (see Figure 1 for

location of municipal and industrial water intakes); b) beach and recreational areas (see Figure 2); c) spawning and fishing areas (see Figure 3 A,B). Exceptions may be made where protection of waterfowl is judged to be of primary importance, or for the removal of a very light local film which may be present following mechanical removal of floating oil. In the latter circumstances, only those compounds exhibiting minimum toxicity toward the aquatic flora and fauna should be used.

APPENDIX IX

RESEARCH

APPENDIX IX

RESEARCH

(i) Canada Centre for Inland Waters (CCIW)

The Canada Centre for Inland Waters is an interdisciplinary centre for water studies in Canada. It is being developed by three Federal departments, Energy Mines and Resources (EMR), Fisheries and Forestry (Fisheries Research Board), and National Health and Welfare, and the university community. Current activities at the centre are focussed on research on the Great Lakes. A number of research vessels operate from the centre as part of the research program.

(ii) Ontario Water Resources Commission

Under the Division of Research, staff are continually compiling data and evaluating various chemicals and materials which are commercially available for cleaning up oil spills.

APPENDIX X

LAKE ERIE

WATER USERS

LAKE ERIE
CONTINGENCY PLAN
MUNICIPAL WATER SUPPLY
PERSONNEL TO CONTACT

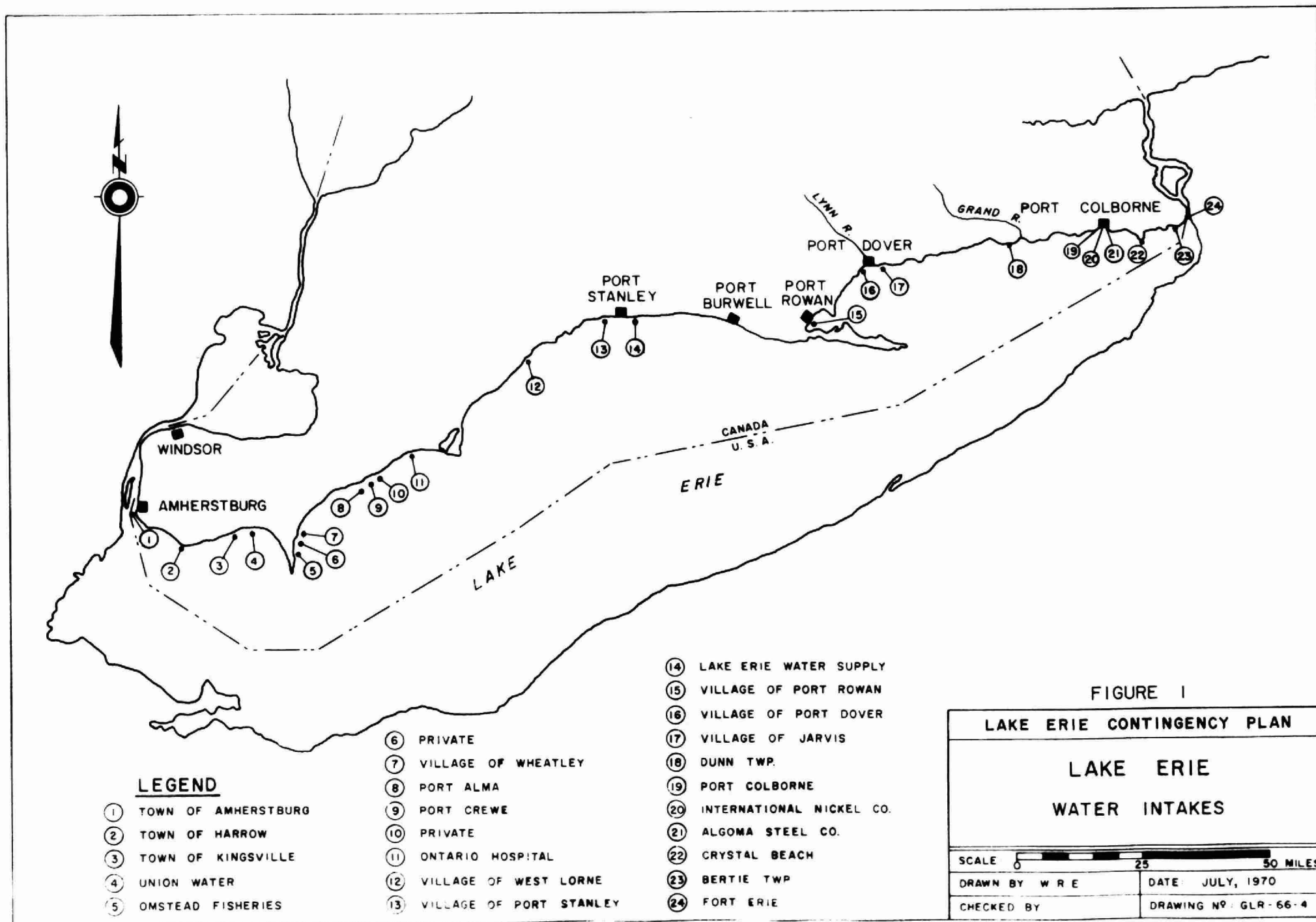
<u>Location of Water Works</u>	<u>Phone Number</u>	<u>Persons to Contact</u>
Town of Amherstburg	Allied Chemical - 736-2111 Home - 969-6675	Mike Paraschak Operator
Town of Harrow	Pumphouse - 738-2284 Home - 738-4194 Clerk - 738-2523	Charlie Hawkins B.E. Baltzer
Town of Kingsville	Plant - 733-4411 P.U.C. - 733-4132	(after hours) Mr. M. Wigle
Union Water System (Ruthven)	Plant - 326-4447	Harold Sanger <u>or</u> Bill Allsop
Village of Wheatley	Pumphouse - 825-4183 P.U.C. - 825-4211 Home - 825-4376	Jim Arnew Robert Mills
Village of West Lorne	Pumphouse - 768-1820 P.U.C. - 768-1880 Home - 768-1183	E. Brown K. H. Phoenix
Village of Port Stanley	Pumphouse - 782-3251 P.U.C. - 782-3940 Home - 782-3940	Howard Berry
Village of Port Dover	Pumphouse - 583-1930 P.U.C. - 583-1632 Home - 583-0244	R. Barry D. Simpson
Village of Port Rowan	Pumphouse - 586-2113 P.U.C. - 586-2113	P. Baese H. Hammond
Lake Erie Water Supply (Twp. of Yarmouth)	Pumphouse - 631-3680 Manager - 433-3961 Home - 439-4836	Reg Walters Alan Ladbroke

PRIVATE INDUSTRIAL WATER SUPPLY

<u>INDUSTRY</u>	<u>PERSON TO CONTACT</u>	<u>PHONE</u>
H. J. Heinz Co. of Canada	Mr. R. B. Marshall	519-326-5701
Omstead Fisheries 1961 Ltd.	Mr. R. Omstead	519-825-4611
International Nickel Company Ltd.	Mr. W. B. Banker	416-834-3611
Algoma Steel Corp. Ltd.	Mr. R. Fabbio	416-835-1103
Private, Mersea Twp.	Mr. Myronyk	519-826-7167
Union Gas, Port Alma		519-689-4297
Erie Cannerys		519-689-4252
Port Crewe	Mr. G. E. Crew	519-689-4889

Lake Erie

<u>Location of Water Works</u>	<u>Phone Number</u>	<u>Persons to Contact</u>
Dunn Twp.	Plant - 774-6311 Home - 774-4608	R. Neff, Operator
Port Colborne (Welland Canal near inlet from Lake Erie)	Pumphouse - 834-3363 Home - 834-9475	J. Farbiak
Crystal Beach	W.W. - 869-2850 Home - 869-3405	C. Wood
Fort Erie	Pumphouse - 871-1605 Home - 871-1207	G. Rose
Bertie Twp.	Plant - 871-3551 Home - 871-0303	Wilf Vye
Village of Jarvis	Plant - 587-2611 Home - 587-2694	R. Reynolds, Foreman



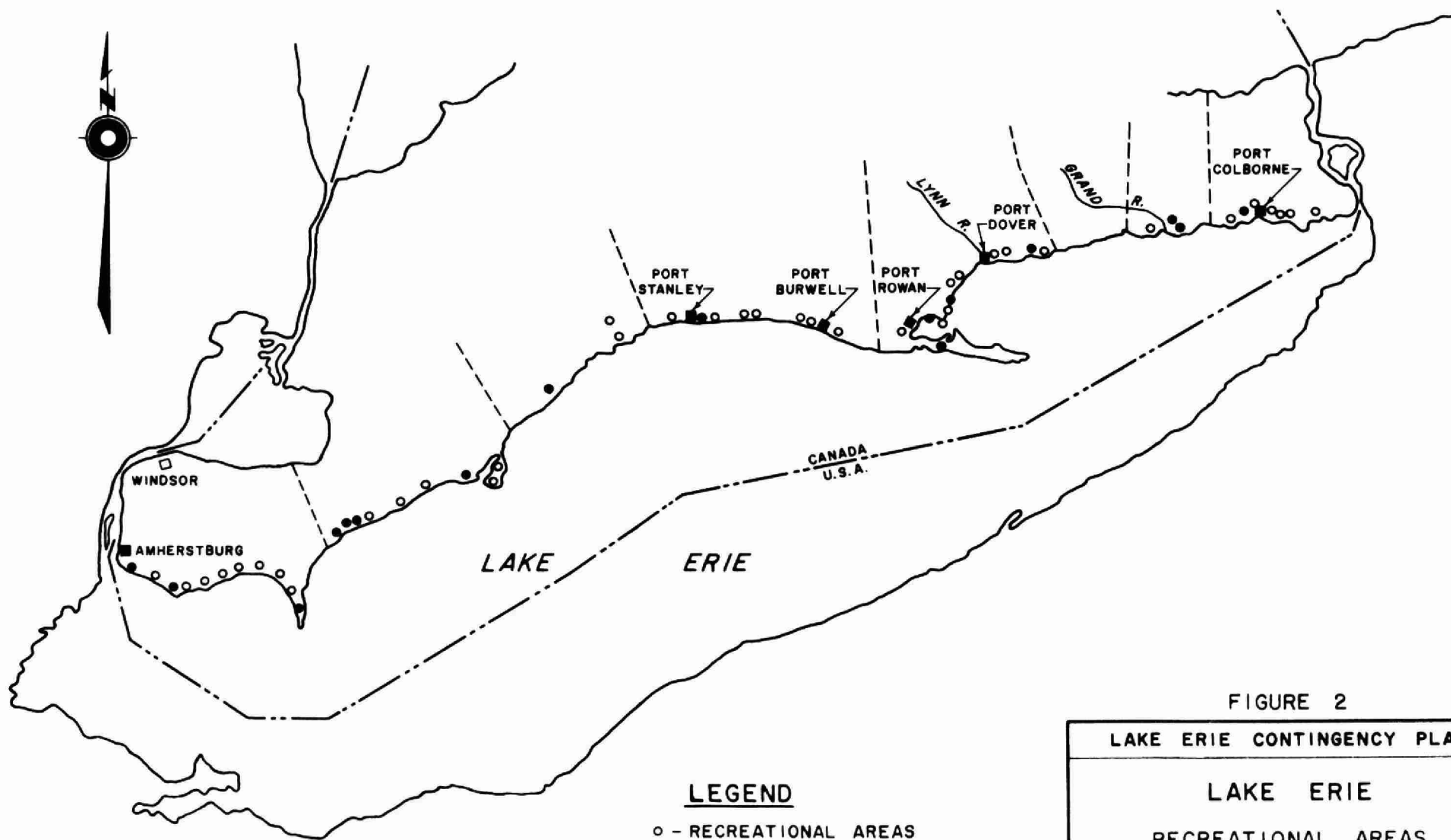


FIGURE 2

LAKE ERIE CONTINGENCY PLAN

LAKE ERIE
RECREATIONAL AREAS

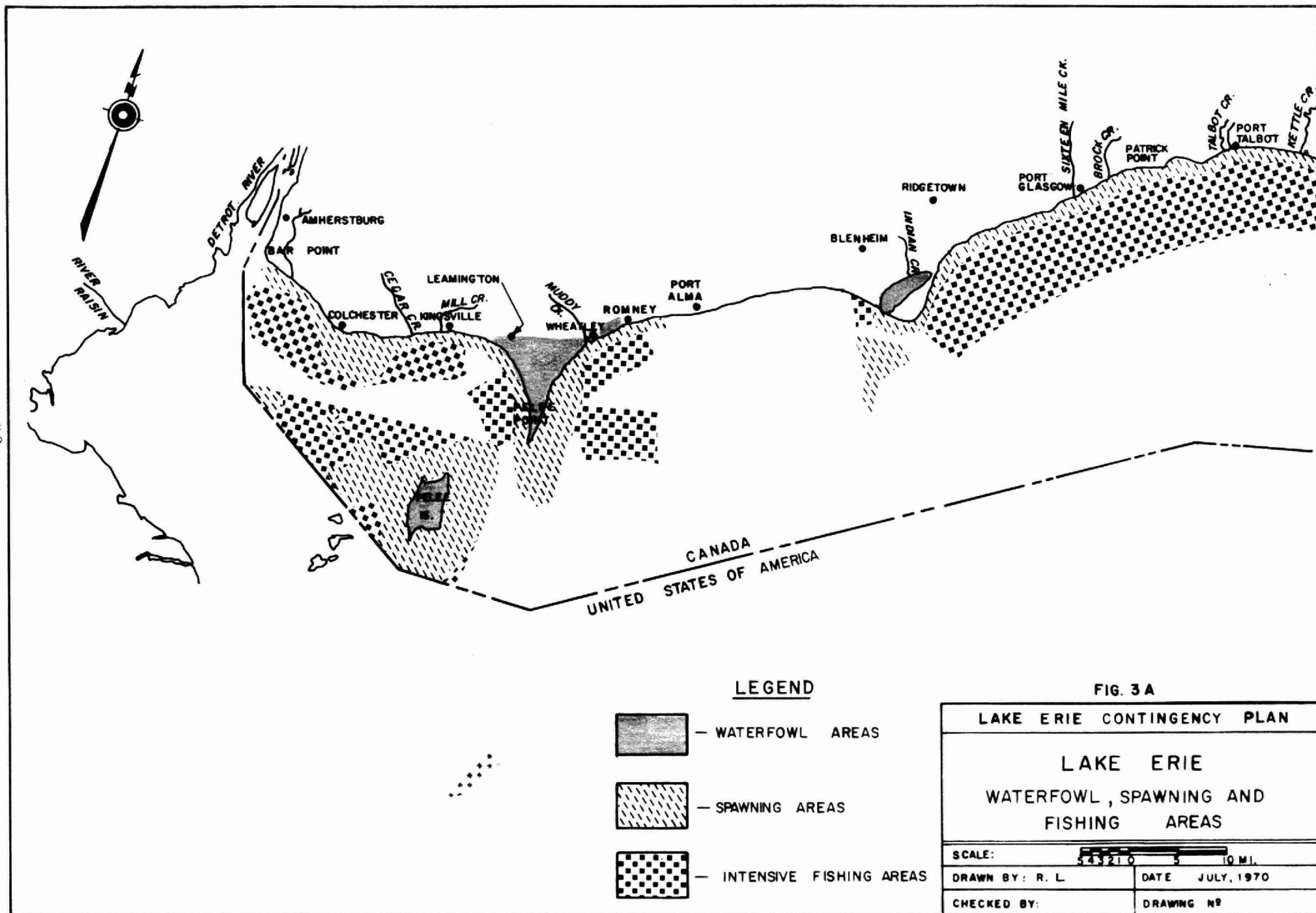
SCALE: 0 5 10 15 20 25 30 35 40 MILES

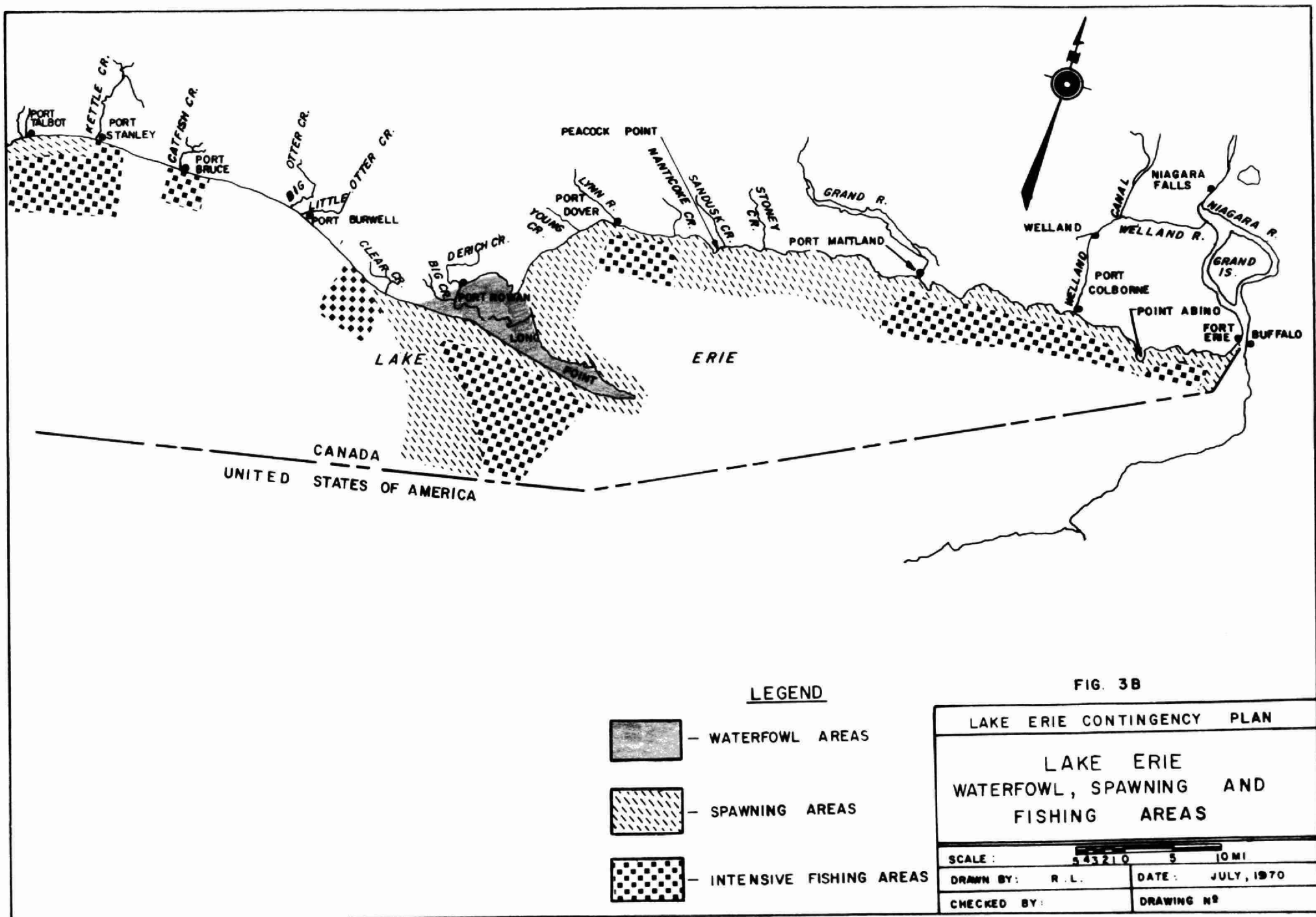
DRAWN BY: A.R.S.

DATE: JULY, 1970

CHECKED BY:

DRAWING NO: 70-59-GL





APPENDIX XI

ONTARIO OPERATIONS CENTER

INVENTORY OF EQUIPMENT

for

CONTAINMENT AND CLEAN-UP

OF OIL SPILLS

April 1970

BOOMS

1. TORONTO

A. Toronto Harbour Commission

Three oil slick bars 500-200-300 ft. length.
6" floats and 8" fin.

B. Canadian National Railway

One oil slick bar 100 ft. length.
4" float and 6" fin.

C. Western Lake Ontario Refineries

Two TT booms 164 ft. length 1' freeboard 2' skirt
Shift supervisor Shell Canada Ltd. 416-923-2481.

2. SARNIA

A. Imperial Oil Enterprises Ltd.

Shift Superintendent 519-337-8221
One 164' TT boom 24" skirt and 12" freeboard.
One oil slick bar 100'.

B. Shell Canada Ltd.

Shift Superintendent 519-862-1491.
One oil slick bar 130'.

CHEMICALS

1. TORONTO

A. Esso Chemicals stockpile Correxite

Contact 416-638-1010, off-hour contact customer service.

2. Lake Erie Operators

A. All drilling platform equipped with dispersants, hoses
and nozzles to handle minor slicks.

3. SARNIA

A. Imperial Oil Enterprises Ltd.

Phone 519-337-8221
45 gal. drums Correxite 7664

ABSORBANTS, STRAW, HAY, SAWDUST, ETC.

1. TORONTO

A. Department of Highways (Maintenance Engineer, Mr. E.J. Orr Office 416-365-3665, home 416-249-1147) can advise on location of straw and 18 straw Mulch Blower in Ontario, also contact for private stockpiles of straw.

B. Directory of Wood-Using Industries listing locations of possible stockpiles of sawdust log booms, etc. The directory is published by Department of Lands and Forests and is available at Central Operations Center.

SKIMMERS AND VACUUM TRUCKS

1. SARNIA

A. Shell Canada Ltd.
Contact Mr. T. Barry 419-862-1491
One floatation skimmer, require pump or vacuum truck to operate.

B. Imperial Oil Enterprises Ltd., shift superintendent 519-337-8221, 2 floating type skimmers equipped with 50 ft. hose and with electric or gas driven pump.
1 vacuum truck.

C. The following municipalities employ vacuum trucks for cleaning operations: Niagara Falls, Kitchener, London and Blenheim and also Sterling Fuels Ltd. in Port Stanley.

MISCELLANEOUS

1. SARNIA

A. Imperial Oil Enterprises Ltd.
25 ft. boat equipped with two 500 gpm Chrysler Industrial water pumps and two Fire Monitors for correxit application.

2. AYLMER

A. Department Lands and Forests 519-773-9241 Mr. W.B.M. Clarke
10 vessels ranging 16 to 45 ft. length equipped with 50 to 150 h.p. motors.

3. TORONTO

A. Ontario Water Resources Commission.
Mr. S.E. Salbach, Program Engineer
Great Lakes Surveys Program. 365-6954

MONITOR I

19' Neptune Cruiser will be operating in St. Lawrence, Niagara and St. Marys rivers. Is equipped with trailer. Maximum speed 25 knots. Cruising speed 18 knots.

MONITOR II

28' Georgian steel hull cruiser.
Maximum speed 25 knots, cruises at 20 knots.
Will operate in Detroit and St. Clair rivers.

MONITOR III

62' steel hull cruiser.
Maximum speed 12 knots, cruising speed 8 knots.
Will operate in Lake Ontario and Lake Erie.

B. Ontario Provincial Police
Equipment available to provide initial communications, arrangements should be made through Central Operations Center.

BURLINGTON

A. CCIW, Dr. LeFeuvre 416-632-1940
For use of vessel refer to listing on size, power and location at Ontario Operations Center.

APPENDIX XII

NINTH U.S. COAST GUARD DISTRICT

INVENTORY OF EQUIPMENT

for

CONTAINMENT AND CLEAN-UP

OF OIL SPILLS

February 1970

BOOMS

1. COTP OSWEGO ZONE

A. St. Lawrence Seaway Development Corporation, Messena,
New York 1000 feet floating plastic oil boom (slickbar)

2. COTP BUFFALO ZONE

A. Department of Public Works, Buffalo, New York
One 370' plastic oil boom 6" diameter float 18" skirt (slickbar)

B. Republic Steel Corporation, Buffalo, New York
One 200' plastic oil boom, 6" diameter float 18" skirt (slickbar)

C. Erie County Public Works Department, Buffalo, New York
One 350' plastic oil boom, 6" diameter float 6" skirt (slickbar)

D. Bethlehem Steel Corporation, Buffalo, New York
One 150' plastic oil boom, 6" diameter float 6" skirt (slickbar)

E. Port Authority, Rochester, New York
One 1000' plastic oil boom, 4" diameter float 6" skirt (slickbar)

F. Mobile Oil Company, Buffalo, New York
390' of plastic oil boom (slickbar) 6" float, 6" skirt

G. Ashland Oil Co., Tonawanda, New York
100' of plastic oil boom (slickbar) 6" float, 6" skirt

3. COTP CLEVELAND ZONE

A. Harbor Master/COTP CLEVELAND, Tel: 522-4409/694-3256
1000' (slickbar)

4. COTP DETROIT ZONE

A. Mobile Oil Company, West Allen Road, Trenton, Michigan
100' section slickbar floating plastic oil
10' fin, standard weight
Mobil has ordered 500' of same type boom

B. Standard Oil Company, Ft. of Wilder Road, P.O. Box 38,
Bay City, Michigan
200' section slickbar 6" fin, standard weight

C. Dow Chemical Co., 4868 Wilder Road, Bay City, Michigan
2500' slickbar in 100' section
For information, Dow Chemical, Midland, Michigan has a complete
fire department with capabilities of oil removal under Chief
Earl Forten. Dow also produces in Midland all components that
are used in making standard slickbars

D. Ford Motor Company, 3001 Miller Road, Dearborn, Michigan
600' English Warne type booms in 100' sections maintained in
place at Ford River Rouge Plant.
One Standard Oil make skimmer maintained at Ford River Rouge
Plant.

E. Marine Pollution Control Corp., 214 Randolph St. Detroit, Mich.
200' section slick bar 6" fin, standard weight

F. Ford Motor Co., 3001 Miller Road, Dearborn, Mich.
100' section slickbar floating plastic oil boom 4" float,
6" fin weighted for 2 ½ - knot current

5. COTP CHICAGO ZONE

A. American Oil Co., Riley Road and Indiana Harbor Ship Canal,
East Chicago, Ind. Phone: Mr. Windhauser: 219-659-2700, Ext
217 or 216. Day: FTS 219-932-5500. Nights and Weekends: 219-
397-4039 (if no answer, call 219-659-2700 Ext 343).
One 6" by 250'; two 6" by 500' booms

B. Bethlehem Steel Corp., Burns Harbor, Indiana
Phone: 219-652-2120
FTS 219-886-2411
One 8" by 150' boom.

C. Cities Service, Columbus Drive, East Chicago, Indiana
Phone: Mr. Stover 219-397-6560 Ext 342
Mr. Knight 219-397-6560 Ext 253
FTS 219-932-5500
Nights and Weekends: 219-397-6560 (Ask for foreman)
One 4" by 350' boom.

D. Globe Oil and Refining Co., Willow Springs, Illinois
Phone: 312-839-5220
One 6" by 30' boom.

E. Inland Steel Co., East Chicago, Illinois
Phone: Mr. J. Kapitan (Fire Chief): 219-397-2300 Ext 2035
FTS 219-932-5500
Two 6" by 200' Booms

F. Mobil Oil Co., 3821 Indianapolis Blvd., East Chicago, Indiana
Phone: Mr. Murray: 219-397-1950
FTS: 219-932-5500
Nights and Weekends 219-397-1950 (Ask for foreman)
One 4" x 250' boom, One 4" x 350' boom

G. Pure Oil Co., Lemont, Illinois
Phone: 312-257-2201

Four 6" x 100' booms

H. Phillips Pipeline Co., 400 East Columbus Dr., East Chicago, Indiana
Phone: Mr. Staton 219-397-6666
FTS 219-932-5500
Nights and Weekends 219-397-6666 (ask for operator leadman)
One 4" x 350' (trailer mounted)

I. Shell Oil Co., Columbus Dr., East Chicago, Indiana
Phone: Mr. Austin 219-845-4502
FTS 219-932-5500
One 4" x 250' Boom

J. Sinclair Refining Co., 3500 Indianapolis Blvd., East Chicago, Indiana
Phone: 219-397-0924 (ask for shift foreman)
FTS 219-932-5500
Two 4" x 350' booms one is semi permanently installed

K. Texaco Co., 3600 Canal St., Indiana
Phone: Mr. Eaton 219-397-0908
FTS 219-932-5500
Nights and Weekends 219-838-8881
One 4" x 400' Boom

L. Texaco Inc., Lockport, Illinois
Phone: 815-838-0770
One 8" x 100' Boom

M. Humble Oil and Refining Co., 3301 South California Ave., Chicago, Ill.
Phone: Mr. Game, Supt. (312) 523-8100
Night Phone: (312) 247-2615
One 4" by 100' Boom, 175 lbs

N. Sinclair Oil Terminal, 4100 S. Laramie, P.O. Box 48, Cicero, Illinois
Phone: Mr. L.E. Lacock Supt. 312-247-3378
Night Phone: 312-247-3378 or 312-652-2170
Two (2) 4" by 200' Booms 750 lbs

O. Marson Corp., 327 S. LaSalle St., Chicago, Ill.
Phone: John D. Harper 312-741-9047 (24 hrs)
Note: Equipment normally for hire
8" by 12' (1200') Booms 1500 lbs; 6" by 8' (1000') Booms, 1100 lbs

6. COTP MILWAUKEE ZONE

A. Milwaukee Fire Department
750' slickbar boom with line throwing gun and truck.
Phone: 414-347-2323
Note: Boom not generally available for use outside of Milwaukee

7. COTP LUDINGTON ZONE

A. 500' of Slickbar oil boom at Muskegon, Mich. and 500' of the same type of boom at Ferrysburg, Mich. These were produced by local oil terminals, the Grand Trunk Western Railroad, and the city of Muskegon, and are primarily under the jurisdiction of Muskegon Fire Department.

8. COTP SAULT STE. MARIE ZONE

A. Standard Oil Co. depot at Sault Ste. Marie, Mich.
One four-hundred foot (400'), Slickbar type oil boom.

9. COTP DULUTH ZONE

A. Murphy Oil Company
Superior Refinery Fuel Terminal
Superior, Wisconsin
Phone: 218-727-6862 (24-hour phone) Contact Walter Buck
Common carrier; military vehicle
130' slick bar oil boom with 4" float and 8" fin

B. Great Northern Refinery
P.O. Box 3596
Pine Bend, Minnesota
Phone: 612-222-4721 (24 hour phone) Contact Jud Hester
Common carrier, 24-hour service
One slick bar oil boom with 6" float and 6" fin-5 lengths totaling 1,000 feet
Portable surface pump
Weight 300 lb. (approximate)
70-foot suction hose, discharge hose with flange connection

C. Lakehead Pipeline Co., Pier, Superior, Wis.
Phone: 398-6547 (Superior) Contact Charles Gilbert, Common Carrier;
Military vehicle
100' plastic oil boom

10. COTP TOLEDO ZONE

A. Gulf Oil Co., 2935 Front St., Toledo, Ohio
Phone: 419-729-3871
400' 4 x 6 slickbar, chain weighted, 74 lbs per 100'

B. Standard Oil Co. Foot of Millard St. Toledo, Ohio
Phone: 419-248-1461
300' 4 x 6 slickbar-chain weighted, 74 lbs per 100'

C. Buckeye Pipeline Co. Lima, Ohio
Phone: 419-223-4015
200' triple weighted slickbar, 120 lbs per 100'

CHEMICALS

1. OSWEGO

A. St. Lawrence Seaway Dev. Corp.
Massena, New York
Phone: 315-764-0271
500 Gal. JANSOLV-60

B. Massena Fire Dept.
Massena, New York
Phone: 315-769-2464
10 Gal. "Foilzoil"

2. BUFFALO

A. American Oil Company
McKee Road
Rochester, New York
15 Gals. SLIX

B. Hess Oil Company
22 Cairn Street
Rochester, New York
25 Gals. SLIX

C. Allied Oil Company
Cranberry Street
Erie, Pennsylvania
55 Gals. SLIX

D. United Oil Company
Cranberry Street
Erie, Pennsylvania
5 Gals. SLIX

E. Buffalo Fire Dept.
Phone: 716-854-1674 for the following
Dry Foam Powder
Two motor units - 1-1000 # unit and 500 gallons liquid foam
at Greater Buffalo Airport
City of Buffalo Fire Boat
630 gallons high expansion foam

F. Buffalo CG Station
Phone: 716-842-2191
21-5 gallon cans foam

G. USCGC BUCKTHORN
Phone: 716-842-2045
13-5 gallon cans foam

H. USCGC OJIBWA
Phone: 716-842-2046
11-5 gallon cans foam

3. CLEVELAND

A. Magnus Chemical
3199 W. 65th St.
Cleveland, Ohio 44102
Phone: 216-631-7397
216-268-4040
Various chemicals and emulsifiers

B. Magnus Chemical
5100 W. 164th St.
Cleveland, Ohio 44142
216-267-4506
216-243-1262
Oil Spill Disperser and Experts

C. Ekoperl
616 St. Clair Ave. NE.
Cleveland, Ohio 44114
216-621-3210
Oil absorbent - large quantity

D. Alken - Murray Corp.
5156 Thornbury Blvd.
Cleveland, Ohio 44124
216-771-8183
Liquid Dispersant

E. Yosemite Chemical Co.
Akron, Ohio
216-762-2616
Spill - Away

4. DETROIT

A. Marine Pollution Control Corp.
214 Randolph Street
Detroit, Michigan 48226
Mr. David Usher Home Phone: 313-548-1234
Office " : 313-931-1035
400 Gallons Oil disperser as well as other pollution control equipment

5. CHICAGO

A. Pure Oil Company
Mile 297.5
Lemont, Illinois
Mr. Gerharz Phone: 257-2201
Home: 257-2171
90,000 lbs. foam powder in 50 lb. pails
400 lbs, dry chemical powder.
105 Gal. 3% mechanical liquid foam

B. Texas Company
West 2nd Street
Box 200
Lockport, Illinois
Mr. J.R. Cutler Phone: 815-838-0770
Home: 815-838-0744
Mr. J.C. Jarratt Phone: 815-838-0770
Home: 815-838-1242
38,000 lbs. dry foam powder in 50 lb. pails
645 lbs. 3% mechanical liquid foam

C. Smith Oil Company
P.O. Box 5 West Market
Peru, Illinois
Mr. F. Tielman Phone: 815-223-3035
Spring Valley 3-0314 (nights)
100 5 Gal. pails 6% mechanical foam

D. Getz Fire Equipment Company
Phone: 309-673-0761
1615 West Adams
Peoria, Illinois
60 (5) Gal. cans 3% mechanical foam
50 Gals. Kiddle High Expansion Foam
5 Gals. Mine Safety foam.

E. Clark Oil and Refining Company
131 Street and Kedzie Avenue
Blue Island, Illinois
Mr. Schutz Phone: 285-5000 Ext 202
4700 lbs. of dry chemical
600 Gals. 3% liquid mechanical foam in 5 gal. cans
150 Gals. 6% mechanical foam
3850 lbs. 3% liquid mechanical foam
27,350 lbs. of 2+1 foam powder

F. Pure Oil Company
4801 South Harlem Avenue
Chicago, Illinois
Mr. Johnson: Phone: 484-7800
330 Gals. of 3% mechanical foam

G. Harlem Avenue Bridge
Lake River Terminal
Harlem Avenue, Bridge and Canal
Mr. Krestan Phone: Bl2-2300
200 Gals. 3% liquid foam

H. Standard Oil Company
4811 South Harlem Avenue
Berwyn, Illinois
Mr. Fabray: Phone: 242-3480
125 Gals. 3% liquid foam.

I. General American Tank

Storage Terminal

67 Street and Archer Road

Argo, Illinois

Mr. Ferry Phone: 581-2340

Home: 424-6683

Mr. MacDonalds Phone: 581-2340

Home: 458-3281

70,100 lbs. (50 lb. pails) foam powder

22,440 lbs. (50 lb. pails) chemical powder

J. Charles R. Teas Co. Inc.

13825 South Indiana Avenue

Chicago, Illinois

Mr. W.O. O'Conner Phone: 849-8840

Home: 233-5731

Mr. Teas Phone: Home: 849-2273

3,000 Gal. 3% mechanical foam

3,000 lbs. Purple K dry chemical

20,000 lbs. Plus 50 dry chemical

K. Walter Kidde and Co. Inc.

1314 West Randolph Street

Chicago, Illinois

Mr. Vonckx Phone: 252-1910

1,000 Gals. High Expansion Foam.

L. Mobil Oil Company

3821 Indianapolis Blvd.

East Chicago, Indiana Phone: Mr. C. Smoljan 219-397-1950

8-40 Gal. Liquid Foam Carts

M. Sunshine Chemical Company

P.O. Box E.

Highland Park, Illinois 60035

Mr. Bill Katz Phone: 312-433-1145

Mr. Steve Kausman Phone: 203-232-9227

Various chemical and equipment for combating oil spills

N. The Texas Company

3600 Canal Street

East Chicago, Illinois

Mr. Eaton Phone: 219-397-0908

7,500 Gals. Foamite

O. Whiting Refinery Amer. Oil Co.

2400 New York Avenue

c/o Fire Department

Whiting, Indiana

Mr. Kaminsky Phone: 219-659-2700 Ext 243

(1) truck with 2,000 lbs. dry chemical powder.

P. Sinclair Refinery Company
3500 Indianapolis Blvd.
East Chicago, Indiana
Mr. Niemann Phone: 219-768-2866
Mr. Carpenter Phone: 219-398-0924
One 350 lb. Ansul dry powder 962 lb
One 150 lb. Ansul dry powder extinguisher 487 lbs.

Q. Able Fire and Safety Company
260 N. Fairfield
Chicago, Illinois
Mr. P. K. Nielsen Phone: 826-5555 (24 Hrs)
1,500 Gals. High Expansion Foam.
1,600 Gals. Rockwood Protein Foam.
2,600 lbs dry chemical powder
2,600 lbs Purple K powder

R. HI-EX Co.
1733 East 75th Street
Chicago, Illinois
Mr. O.J. Kelly Phone: 363-3877
Home: 798-5239
250 Gals. High Expansion Foam.

S. Humble Oil and Refining Co.
3301 So. California Ave.
Chicago, Ill.
Phone: Mr. Game Supt. (312) 523-8100
Night Phone: (312) 247-2615
42 Gals. liquid Corexit with spray gun

6. MILWAUKEE

A. Milwaukee Harbor Commission
Milwaukee, Wisconsin Phone: 414-276-9355
50 Gals. JANSOLV-60

B. Milwaukee Fire Department
Milwaukee, Wisconsin Phone: 414-276-9355
850 Gals. JANSOLV-60 Not available outside Milwaukee area.

C. American Oil Co.
Milwaukee, Wisconsin Phone: 414-273-6117
55 Gals. JANSOLV-60

D. Shell Oil Co.
Milwaukee, Wisconsin Phone: 414-271-8700
55 Gals. JANSOLV-60

E. Texaco Inc.
Milwaukee, Wisconsin Phone: 414-271-8110
55 Gals. JANSOLV-60

F. Illinois Chemical Co.
South Town Road
New Berlin, Wisconsin
Mr. Eugene Sperry Phone: 414-786-3651
Distributor for JANSOLV-60, 100 Gals. on hand.

G. Green Bay Fire Dept.
Green Bay, Wisconsin Phone: 414-435-4401
55 Gals. JANSOLV-60, with dispenser

7. LUDINGTON

A. None

8. SAULT STE. MARIE

A. None

9. DULUTH

A. Duluth Air Force Base Fire Station
Duluth, Minnesota Phone: 727-8211 (24 hrs)
3,000 Gals. of Liquid Foam in (5) Gal. cans.

10. TOLEDO

A. USCGC TUPELO Phone: 419-254-6450
12-5 gal. cans foam.

B. Toledo Coast Guard Station Phone: 419-259-6448
5 Gals. foam

C. Toledo Fire Dept.
Toledo, Ohio Phone: 419-232-4141
2-(5) Gal. cans foam.

D. Gulf Oil Co.
2935 Fron Street
Toledo, Ohio Phone: 419-729-3871
2-55 Gal. Drum JANSOLV-60 3-55 Gal. Drums SLIX

E. Standard Oil Co.
Millard Street
Toledo, Ohio Phone: 419-248-1416
2-55 Gal. Drums SLIX

F. Ashland Oil Co.
3147 Jessie St.
Toledo, Ohio Phone: 419-726-2867
(5) 6-55 Gal. Drums SLIX

G. Sun Oil Co.
Hocking Valley Dock
Front Street
Toledo, Ohio Phone: 419-691-3561
(5) 55 Gal. Drums SLIX

H. American Shipbuilding Co.
2247 Front Street
Toledo, Ohio Phone: 419-691-2475

I. Miller Oil Co.
Fire extinguishers: Two 15 lb. CO₂

J. Buckeye Pipeline
Fire extinguishers: Three-150 lb. DC on wheels; fifteen-15 lb. DC

ABSORBANTS, STRAW, HAY, SAWDUST, ETC.

1. OSWEGO

A. None

2. BUFFALO

A. Bailey Feed Co
1578 Clinton Street
Phone: 716-822-6349
Hay and Straw \$1.10 per bale
300 to 400 bales on hand at all times

3. CLEVELAND

A. Broadview Seed and Feed Co.
Phone: 749-1221
100 bales straw or hay.

B. United Farmer Exchange
Phone: 235-3172
100 bales straw or hay

C. Wilson Feed Mill
Phone: 216-524-7080
100 bales straw or hay.

D. Herrman-Mclean Co.
Phone: 216-771-1131
150 bales straw or hay

4. DETROIT

A. Lazoen Hay and Feed Co.
26549 Lawrence
Centerline, Mich.
200 bales straw, 200 bales hay

B. Marine Pollution Control Co.
214 Randloph Street
Detroit, Mich.
400 lbs. Ecoperl oil absorbent (dry)

5. CHICAGO

A. Northwestern Salt and Feed Co.
1800 N. St. Louis Street
Chicago, Illinois
Phone: 317-772-7200
Straw - \$35 per ton. (May be delivered within 24 hrs)

6. MILWAUKEE

A. None

7. LUDINGTON

A. None

8. SAULT STE. MARIE

A. None

9. DULUTH

A. B&B Feed and Grain Co.

2402 West Superior St.

Duluth, Minnesota

Phone: 722-9188 Contact Greg Birch - 715-392-2700 (home)

Hay and Straw, 50 bales @ .65 per bale.

50 lb bale, size 1 1½' x 1½ x 3½

B. Lepake Lumber Co.

4300 West 2nd St.

Duluth, Minnesota

Phone: 628-1011 - Bernard Lepake 724-1055 (Home)

@ .75 per bag \$20 truckload (sawdust) (delivered)

@ .65 per bag (picked up)

2 ton truckload - \$20 (15 cu. yds.)

10. TOLEDO

A. The Andersons Mrs. Tucker

Phone: 419-893-6551 or 419-882-3410

Hay

B. Mr. Richard Jacobs

Phone: 472-1109

Sawdust

C. Creque Bros.

5050 S. Main

Toledo, Ohio

Phone: 419-536-1203

Hay

MISCELLANEOUS

1. OSWEGO

A. Camp Drum

Watertown, New York
Phone: 315-SU2 - 6900
Aircraft and Vehicles.

B. St. Lawrence Seaway Pilot Assoc.

Cape Vincent, New York
Phone: 315-014-4900
2 Launches.

C. St. Lawrence Seaway Development Corp.

Massena, New York
Phone: 315-764-0271
Tug Robinson Bay
Barge and Crane
40' utility boat.

D. N.Y. State Police Station Theresa Road

Watertown, N.Y.
Phone: 315-782-2112
17' boat and scuba divers

E. Jefferson County Sheriff

311 N. Massey Street
Watertown, N.Y.
Phone: 315-788-1441
14' skiff and scuba diver

F. Association Island YMCA

Henderson Harbor, New York
Phone: 315-435-5022
56' LCM

G. Northern Yachts Inc.

Henderson Harbor, New York,
Phone: 315-435-5421
28' work boat
20 ton travel lift, underwater
welding equipment

H. Sodus Point Volunteer Fire Dept.

Sodus Point, New York
Phone: 315-483-9494
1 DUKW

I. Stewart S. Sill Sr.
Sodus Point, New York
Phone: 315-483-7374
65' Tug (320HP)
Crane, 6 salvage pumps
6 Portable pumps.

J. Burcroff Marine
Construction Inc.
146 Washington St.
Puttneyville, New York
Phone: 315-589-7131
78' tug (Marion)
36' tug

K. Alexandria Bay Fire Dept.
Alexandria Bay, New York
Phone: 315-482-2345
1 Fire boat.

L. Rogers Texaco Marina
Alexandria Bay, New York
Phone: 315-482-9461
Work boat and 3 salvage pumps.

M. Hutchinsons Boat Works
Alexandria Bay, New York
Phone: 315-482-9931
1 work boat and 1 salvage pump.

N. Bonnie Castle Marina
Alexandria Bay, New York
Phone: 315-482-9975
1 work boat and 1 salvage pump.

O. Ogdensburg Fire Dept.
Ogdensburg, New York
Phone: 315-393-1010
1 DUKW

P. Ogdensburg Police Dept.
Ogdensburg, New York
Phone: 315-393-1551
16' boat.

Q. Massena Fire Dept.
Massena, New York
Phone: 315-769-2464
1 DUKW

R. Metropolitan Oil Company
Massena, New York
Phone: 315-764-0521
Tank trucks.

S. Oswego County Sheriff Dept.
Oswego, New York
Phone: 343-5490 or 343-8331
4 boats.

T. Oswego Fire Dept.
112 E. Bridge St.
Oswego, New York
Phone: 343-1313
6 Scuba divers.

U. Slyvan Beach State Police
Slyvan Beach
Slyvan Beach, New York
Phone: PO2-4441
1 boat.

V. Pirates Cove Marina
Phoenix, New York
Phone: 695-8707
35' cruiser and 2 scuba divers.

2. BUFFALO

A. None

3. CLEVELAND

A. U.S. Army Corps of Engineers
Phone: 216-621-7962
Barages.

B. U.S. Army Corps of Engineers Phone: 216-621-7962
(Benson Hanserman) via Harbor Master 216-621-3256
Ind. Waste Bureau 216-694-3320
Div. Water Poll. Control
2785 Broadway, Cleveland (Ray Rath)
Cleveland, Fire Department 216-621-1212
Boats: Rowboat and 50' launch 4(40')
1(18' on trailer)

C. Scuba Diver
John Bering
Phone: 216-651-5322

4. DETROIT

A. Marine Pollution Control Co.
214 Randolph Street
Detroit, Michigan
Phone: 313-931-1035
1 36' x 12' work barge (self-propelled)

Permanent equipment aboard:

- 4 630 gal. Settling Tanks (barge has a 6000 gal. per hr. suction)
- 1 Air Compressor
- 1 3" vacuum pump and reservoir
- 3 2" Cent. pumps
- 1 4" Cent. pump
- 1 3" Dia. pump
- 1 1" Air pump (with chemical proportion)
- 100' various size hoses
- 1000' (36" length oil booms
- 4 skimmer adapters
- 1 2000 watt Generator
- 5 Walkie Talkies
- 1 Mobile Telephone
- 400 gals. oil dispersant
- 12' x 20' Debris hauling space
- 1 MSA Explosive meter
- 2 Lamb Sir movers
- 1 Air Cub oxygen unit
- 1 2 mask MSA fresh air hand operated unit
- 10 Buoy markers
- Allied equipment:
 - 1 12' Stake truck with barrel hoist
 - 1 1650 gal. Vacuum Tank Truck
 - 1 1650 gal. Tank Truck with pump
 - 3 4" Cent. pumps
 - 1 Double trailer tanker unit (8500 gal. capacity)
 - 1 27' Fiberglass hull power boat (twin screw) (for utility) UHF and VHF radio, fathometer)
 - 1 15' Outboard and oar powered Work Dingy
 - 800' various sizes Suction hose
 - 1000' various size discharger Mill hose
- Lab. facilities to determine B.S. and W contents of petroleum products and flash points.
- 1,000 ft. Paper Cylinder boom material
- 200' Standard Slickbar.

5. CHICAGO

A. American Oil Company

Riley Road and Indiana Harbor Ship Canal, East Chicago, Ind.

Phone: Mr. Windhauser 219-659-2700, Ext 214 FTS 219-932-5500

(Nights and Weekends) 219-397-4039 or 219-659-2700, Ext 343

One 16' with 9½ H.P. Motor

One air line throwing gun, 30 lb.

B. Cities Service Oil Co.

Columbus Dr., East Chicago, Indiana

Phone: Mr. McCarthy Phone: 219-397-656-Ext 342

Mr. Knight 219-397-6560 Ext 253 FTS 219-932-5500

Nights and Weekends 219-397-6560 (ask for foreman)

One Row Boat and Trailer.

C. Mobil Oil Co., Indianapolis Blvd., East Chicago, Indiana
Phone: Mr. Murray 219-932-5500
FTS 219-932-5500
Nights and Weekends 219-397-1950 (ask for foreman)
One Row Boat.
Two air line throwing guns, 30 lbs. each.

D. Shell Oil Co., Columbus Dr., East Chicago, Indiana
Phone: Mr. Austin 219-845-4502
FTS 219-932-5500
One Row Boat.

E. Humble Oil and Refining Co.
3301 So. California Ave.
Chicago, Ill.
Phone: Mr. Game, Supt., (312) 523-8100
Night Phone: (312) 247-2615
One 14' aluminum boat with 3½ H.P. motor, 105 lbs.

F. Walter Kidde and Co. Inc.
1314 S. Randolph St., Chicago, Ill.
Phone: Mr. Vonckx 352-1910
Two gasoline driver generators, 161 lbs. ea.

G. The Texas Co., 3600 Canal St., East Chicago, Indiana
Phone: Mr. Eaton: 210-397-0908
Two Foamite Generators, 300 lbs. ea.

H. Clarke Oil and Refining Co., 131 St. and Kedzie Ave.,
Blue Island, Ill.
Phone: Mr. Schultz 385-5000
Two portable generators

I. General American Tank, 67 St. and Archer Rd., Argo, Ill.
Phone: Mr. Ferry 381-2340
Home: 424-6683
Mr. McDonald 581-2340
Home: 458-3281
Six foam generators with hoppers
Six portable dry chemical extinguishers, 350 lbs. ea.
85 portable dry chemical extinguishers, 30 lbs. ea.
One 3" by 43' portable hydraulic foam tower (Type H-T33)

J. Pure Oil Co., Lemont, Ill.
Phone: Mr. Gerhary 257-2201
12 Foamite generators for mixing chemicals, 300 lbs. ea.

K. One (1) 12' Row boat
Phillips Pipeline Co., 400 E. Columbus, East Chicago, Indiana
Phone: Mr. Staton 219-397-6666
FTS 219-932-5500
Nights and Weekends 219-397-6666

L. One (1) Barge, tank class D. USCG, 10,000 gal.
Seven (7) water craft, self prop.
Marsan Corp, 327 S. LaSalle St., Chicago, Ill.
Phone: John D. Harper 312-741-9047 (24 Hrs.)
Note: Equipment normally for hire

M. One (1) 12' boat with oars
Texaco Co., 3600 Canal St., East Chicago, Ind.
Phone: Mr. Eaton 219-397-0908
Nights and Weekends 219-838-8881

N. Four (4) Mobile, Four (4) portable, 153.230 MC
American Oil Co., Riley Rd. and Ind. Harbor Ship Canal,
East Chicago, Ind.
Phone: 219-659-2700 Ext. 214 or 216
FTS 219-932-5500
Nights and Weekends 219-397-4039 or 219-659-2700 Ext. 343.

O. Five (5), 158.310 MC Mobile units
Cities Service Oil Co., Columbus Dr., East Chicago, Ind.
Phone: Mr. McCarty 219-397-6560, Ext. 342
Mr. Knight 219-397-6560, Ext 253
FTS 219-932-5500
Nights and Weekends 219-397-6560 (ask for foreman)

P. Five (5) Mobile, Three (3) portable, 153.110 MC
Mobile Oil Co., 3821 Indianapolis Blvd., East Chicago, Ind.
Phone: Mr. Murray 219-397-1950
FTS 219-932-5500
Nights and Weekends 219-397-1950 (ask for foreman)

Q. Two (2) portable units, 26.72 and 27.175 MC
Phillips Pipeline Co., 400 E. Columbus, East Chicago, Ind.
Phone: Mr. Stanton 219-397-6666
FTS 219-932-5500
Nights and Weekends 219-397-6666 (ask for leadman)

R. Several Mobile, Twenty (20 Portable Units 153.17 MC
Sinclair Refining Co., 3500 Indianapolis Blvd., East Chicago, Ind.
Phone: 219-397-0924 (ask for shift foreman)
FTS 219-932-5500

S. Mr. George A. Hale
Skokie, Ill.
Phone: 312-677-6200 (Days)
Nights and Weekends) 312-257-2171

T. Mr. G.J. Gerharz, Lemont, Ill.
Phone: 312-257-2201 (Days)
Nights and Weekends 312-257-2171

U. One (1) air powered line throwing gun
Texaco Co., 3600 Canal St., East Chicago, Ind.
Phone: Mr. Eaton 219-397-0908
Nights and Weekends 219-838-8881

V. Three (3) straw mulchers, Tinn type, 800 lbs. ea.
One (1) Harvester for oil soaked straw, 3200 lbs.
Three (3) inflatable bags, 900 gal. rubber, Goodyear, 250 lb. ea.
The Marsan Corp., 327 S. LaSalle St., Chicago, Ill.
Phone: John D. Harper 312-741-9047 (24 hrs.)
Note: Equipment normally for hire

6. MILWAUKEE

A. Milwaukee Harbor Commission
Milwaukee, Wisconsin
Phone: 414-276-9355
45' tug with JANSOLV 60 and spraying equipment.

B. Wisconsin Department of Natural Resources
Madison, Wisconsin
Phone: 608-266-3221
Oil testing equipment.

7. LUDINGTON

A. None

8. SAULT STE. MARIE

A. None

9. DULUTH

A. Marine Fueling, Inc.
Foot of Hill Avenue
Superior, Wisconsin
Phone: 727-3380 (Sig Mattson-525-1601 (Home Phone))
One Self-propelled tank barge WILLIAM H. BENNETT
64,000 gal. capacity, grades D and E Pumping capacity 1,050 gal./min.
Non-self-propelled tank barge K-10 13,000 gal. capacity grades
D and E Pumping capacity 60 gal./min.
2,000 gal. tank truck with pumping equipment.

B. Murphy Oil Co.
Superior Refinery
Superior, Wisconsin
Walter Buck Phone: 727-6828 (24 hour phone)
2000 gal. tank truck with pumping equipment

C. Great Northern Refinery
P.O. Box 3596
Pine Bend, Minnesota
Jud Hester, Plant Supervisor
Phone: 612-222-4721 (24 Hour phone)
Common carrier, 24 hour service
Portable surface pump
Weight 300 lbs. (approximate)
70 foot suction hose, discharge hose with
flange connection.

10. TOLEDO

A. Toledo Police Department
Toledo, Ohio 43604
Phone: 419-241-1221
One 26' boat equipped with a P-500 Pump (max wt. 200 lbs) (capacity
500 GPM at 100 PSI large colume medium pressure)
Hose: 100 feet of 1½ - all purpose nozzle
Varying supply of a chemical emulsifying agent for dispersal of
oil spills. (20 gals. cover 1000 square feet)

B. Toledo Fire Department
Toledo, Ohio 43604
Phone: 419-232-4141
One Fire Boat
Hose 300 ft. 2½" hose; 300 ft. 1½" hose.
1 foam eductor
foam 2 - 5 gal cans.

C. Gulf Oil Co.
2935 Front Street, Toledo, Ohio
Phone: 419-729-3871
Hose: 1200 feet 2½"
One fully equipped fire truck.
One 350 lbs DC
One 12' aluminum rowboat
One fixed air drive

TOLEDO (Cont'd)

D. Shell Oil Co.

2844 Summit Street, Toledo, Ohio

Phone: 419-726-0565

Fixed Systems: Chemical foam - 27,000 gal.

(2) hose: 400'.

E. Standard Oil Co.

Foot of Millard Street, Toledo, Ohio

Phone: 419-248-1461

Fixed Systems: Chemical foam-2100 lb type B.

Hose: 700' 2½"

F. Ashland Oil Co.

3147 Jessie Street, Toledo, Ohio

Phone: 419-726-2867

Fixed Systems: Chemical foam - 1445 gal. type A.

1445 gal. type B. Dry Chemical - 750 gal. single type.

Hose: 200 feet 2½"

G. Commercial Oil Service

5911 Seaman Rd. Toledo, Ohio

Phone: 419-836-3694 or 691-0617

4 tank trucks

1 each 5,700 gal.

2 each 1,600 gal.

1 each 2,600 gal.

1 each 1,600 gal.

1 gear pump 2" - 3" suction

(Portable - can be used with Item #3)

10 ft perforated vacuum pipe for oil pick-up

H. Sun Oil Co.

Toledo, Ohio

(4) 12 foot aluminum hand propelled boats for handling slix
bar spill boom

SKIMMERS AND VACUUM TRUCKS

L. OSWEGO

A. None

2. BUFFALO

A. Bethlehem Steel Co.
3535 Lakeshore
Lawawana, New York
One 300 floating type gasoline driven
One 55 GPH conveyer type

3. CHICAGO

A. American Oil Co.
2400 New York Ave.
Whiting Indiana
Phone: Mr. Kaminsky (219-659-2700)
One vacuum pickup truck 2 tons.

B. Clark Oil Co.
131 st. and Kedzie Ave.
Blue Island Illinois
Phone: Mr. Schultz (385-5000)
One vacuum pickup truck 2 ton

C. Howard Morris Inc.
6153 Columbia Ave.
Hammond, Indiana
Mr. Truppe 219-933-7466
Mr. Smith 312-734-5889
Available for rent 24 hrs a day. (Fee includes 3 operators)
One vacuum truck 200 H.P.

D. American Oil Co.
East Chicago, Indiana
Mr. Windhauser 219-659-2700 ext 216
Nights and Weekends 219-397-4039
Not always available
One vacuum truck 22,760 lbs.
One self-propelled skimmer 2,750 lbs.

CHICAGO (Cont'd)

E. Self propelled skimmer
American Oil Co. Riley Rd. and Ind. Harbor Ship
Canal, East Chicago, Ind.
Phone: Mr. Windhauser 219-659-2700 ext. 216
FTS 219-932-5500
Nights and Weekends: 219-397-4039 or 219-659-2700 ext 343

F. One (1) oil skimmer, 750 lbs.;
Two (2) tank trucks, 2000 gals. capacity.
One (1) vacuum truck, 1000 gals. capacity;
Eighty (80) tons straw, long wheat
The Marson Corporation, 327 S. La Salle St.
Chicago, Ill.
Phone: John D. Harper 312-741-9047 (24 hrs)
Note: Equipment normally for hire

4. CLEVELAND

A. Hirth Oil Co.
2890 E. 83rd
7 trucks (4500 gals.) and pumps

B. USHER Waste Oil
2205 W. 3rd
216-861-1907
10 trucks (5-8000 gal.) and pumps

C. P and K Oil Service
6929 Detroit Ave.
216-961-6496
4 trucks (1500 gal) and pumps

D. Shell Oil
2201 W. 3rd
216-861-6509
10 trucks (8-9000 gal.)

E. Harbor Commissioner
216-694-3390
One floating Skimmer

F. Gulf Oil Co. Inc
250 Jefferson Ave.
Cleveland, Ohio 44113
Phone: 216-861-0755
7 tank trucks

5. DETROIT

A. Ford River Rouge Plant
One floating type skimmer,
Transportable by air

B. Marine Pollution Control Corp.
214 Randolph Street
Detroit, Michigan
One floating type skimmer
Transportable by truck but not by air

6. DULUTH

A. None

7. LUDINGTON

A. None

8. MILWAUKEE

A. None

9. SAULT STE MARIE

A. None

10. TOLEDO

A. Sun Oil Co.
One portable electric explosion proof floating
saucer skimmer

LABORATORY LIBRARY



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Date Due

MOE/LAK ERIE/ATKK
Ontario Water Resources Co
Lake Erie
contingency plan for atkk
c.1 a aa



Environment Ontario
Library
125 Resources Rd.
Etobicoke, Ontario M9P 3V6
Canada